



**ENVIRONMENTAL SERVICES UTILITY
BOARD MEETING
APRIL 18TH, 2022
SUMMARY OF MINUTES**

The meeting for Kankakee Environmental Services Utility was held on Monday, April 18th, 2022 at 6:00 P.M. in the Public Safety Building.

ESU Members Present

Mayor Chris Curtis
Clerk Stacy Gall
Ald Mike Prude
Ald Larry Osenga
Ald Danita Swanson
Ald Kelly Johnson
Ald Carmen Lewis
Ald Reginald Jones

Superintendents

Dave Tyson, PR, IPLS
Daniel Jay

Additional Alderman Present

Ald Lance Marczak
Ald Malone Marshall
Ald Victor Nevarez

ESU Staff Present

Zach Newton, GIS/Oper's Mgr
Dennis Doyle, DPW Asst. Supt.
James Lopez, DPW Oper's Mgr
Ryan McGinnis, Oper's Mgr

MAYOR CURTIS:

Good Evening everyone. Real quick, just some housekeeping. The microphones for the First Ward Aldermen work but all other Aldermen mics do not. We ordered the circuit boards that allow them to work. Two of them were ordered. It's my understanding they are not the right fit and they tried to fix those today. What we will do for tonight's meeting, our mic's work, and the department

heads work. I'll make sure that I repeat who makes the motion, who makes a second motion, if we need to talk or an Alderman needs to make a comment, we're going to have to go old school we'll just get the microphone in the middle and just carry that around for people that have some discussions and comments. Hopefully by tomorrow or Wednesday they'll have the circuit boards that are needed to fix all the all the Aldermen mics. You don't have to push the buttons tonight because you won't be heard. It's 6:02 P.M. we are going to call the Environmental Services Utility Board Meeting to order for Monday, April 18th, 2022. We'll begin with public comments. Do we have any public comments this point? Seeing none, we'll move on to roll call.

ROLL CALL

CLARA HALL:	Ald Lewis - Present	Ald Swanson – Present
	Ald Prude – Present	Ald Johnson - Present
	Ald O'Brien - Absent	Ald Jones - Present
	Ald Osenga – Present	Clerk Gall – Present
	Mayor Curtis - Present	
	PRESENT: 8	ABSENT: 1

APPROVAL OF THE MINUTES

MAYOR CURTIS: We have a quorum. Next, is Item three approval minutes. Is there a motion to approve the minutes of March 21st, 2022?

ALD OSENGA: So move there.

ALD SWANSON: Second

MAYOR CURTIS: Motioned by Alderman Osenga and seconded by Alderwoman Swanson. Any questions or comments or changes or additions to the minutes from March 21st, 2020? Seeing none, roll call?

CLARA HALL:	Ald Lewis - Aye	Ald Swanson – Aye
	Ald Prude – Aye	Ald Johnson - Aye
	Ald O'Brien - Absent	Ald Jones - Aye
	Ald Osenga – Aye	Clerk Gall – Aye
	AYES: 7	ABSENT: 1

APPROVAL OF THE BILLS

MAYOR CURTIS: The minutes are passed. Next, we'll move into item four which is the approval of bills. You should have in front of you the bills for

April 18th, 2022. Is there a motion for approval of bills in the amount of \$673,497.20?

ALD SWANSON: I'll make that motion.

ALD OSENGA: Second

MAYOR CURTIS: Motioned by Alderwoman Swanson and seconded by Alderman Osenga. Are there any questions or comments about the bills? Alderman Osenga?

ALD OSENGA: Yes, Mayor. Check # 31812 Interstate Building. There's a number of bills and a number of credits. Is this a company that we use *(inaudible)* it's all in one check number.

MAYOR CURTIS: Mr. Lopez, these are all for DPW correct?

JAMES LOPEZ: *(inaudible)*

MAYOR CURTIS: There are quite a bit of credits here...so these are for the vehicles?

JAMES LOPEZ: *(inaudible)* yes.

MAYOR CURTIS: Does that answer your question? Okay, any other questions about the bills. Alderwoman Johnson?

ALD JOHNSON: *(inaudible – questions the cost of cleaning buildings)*

MAYOR CURTIS: Mr. Jay did put something together for cleaning services but we pulled back on that. The Library wants to talk about whether they will join in on that or not. Then we also want to get a base on what is currently being cleaned with the specs that will go out. One thing that we don't want to do is to have it cost more money. Yes, right now we do have a company that cleans the Depot and we have another company that cleans the Administration building, this building, Environmental Services (LeBeau) and DPW. These are the 4 buildings that they clean. I do know the administration building and public services public safety building, they do five days a week. I believe DPW is two or three times a week, and then ESU two times. It is something that is being worked on the lookout.

ALD JOHNSON: Thank you.

ALD CURTIS: Alderman Marczak?

ALD MARCZAK: (inaudible) is it in their current contract where it says that they come in and clean the bathrooms five times a week or you know?

MAYOR CURTIS: We're looking for that right now. That's something that I was going to knock on Clerk Gall's door for this week. Any other questions? We'll go to roll call.

CLARA HALL:

Ald Lewis - Aye	Ald Swanson – Aye
Ald Prude – Aye	Ald Johnson - Aye
Ald O'Brien - Absent	Ald Jones - Aye
Ald Osenga – Aye	Clerk Gall – Aye
AYE: 7	ABSENT: 1

MONTHLY ACTIVITY REPORTS

MAYOR CURTIS: Those are passed. Next, we will go into monthly activity reports. And we will start with the street and alleys.

JAMES LOPEZ: So, everything's pretty much in the report that I want to hit on a couple of things. We started tearing the fence down behind DPW over there on Oak & Fifth Avenue, going all the way around. We are waiting for the tiger mower to be delivered, which should be here in the middle of May and we're going to finish that up. Taking down the stuff with the tire mower. There's a lot more spots to use it in. We've usually have it for about two weeks and we moved the second excavator to Alpiner Park. We're going to start doing that between the Avis hotel and Alpiner Park to start tearing up the asphalt there and moving it back over there. So, that's all I got.

MAYOR CURTIS: So, the old Avis motel site where we got the old asphalt and everything we got somewhere that the city owns where the asphalt is there. We have an opportunity where we can bust up that asphalt. That's a site that we would sell to a developer or business that wants to go there but in-the-meantime, it just kind of looks a little rundown. So, we want to pull up the asphalt, put grass down there and make it look more aesthetically pleasing. Then we can use that material in some other areas of the city as fill area that we're working on. So hopefully duplication of some of our areas and he's Court Street there as I said Murphy's Law as soon as we put grass there somebody want to buy it and it's a good thing. But in the meantime, it has to be another two or three years before that's there it'll look a lot like the corner of without tree looks like the corner of Nelson and East Court Street where the schools that they're like Dr. King can be more pleasing and you come into town here. So, this is all being done in house and DPW is doing that

with their own labor. So, the same thing with Fifth Avenue too. They are cleaning that area up along there are several others that they're doing all in house. Alderman Jones?

ALD JONES: Yes. I would like to publicly thank, Lopez and how he's doing his job (inaudible).

JAMES LOPEZ: We appreciate that.

MAYOR CURTIS: Any other questions or result? Okay, thank you, sir. Next is the technical services report. Ms. Hall.

CLARA HALL: On the project that we have been working on for the last four weeks, we have been doing some upgrade, lighting to the library. All four floors. We chose to do the lighting on all four floors because it'll give us an opportunity to save on energy, it will provide cost savings as far as the above and in labor as well. We are changing out the bulbs and the ballasts in the library. It's going to have a hefty savings to our budget. Each fixture takes four bulbs and a box of bulbs contain about 12 total at the cost per box is \$350 and that will only take care of three fixtures. So usually throughout the year each year we've noticed that it's cost us \$6,000 to \$8,000 to change the bulbs at the library on an annual basis. On February 21st, we began to do a Com Ed rebate application process. We proceeded with a walkthrough which took pictures of the bulbs and the ballast. We had our local vendor to walk with us. We did lighting for the main areas, closets, bathrooms, hallways, storage areas and offices. They found that the two different lights were the T8's and T12's we counted a total of 545 fixtures in the library. We received a quote for the LED retrofit kits, and that quote was an amount of \$38,920.90. We moved forward with the application process and submitted it to Com Ed. On March 9th. I received an email back from Com Ed stating that they have reserved the entire amount for the city of Kankakee for this project. The funds expire on June 7. I reached out to Superintendent Tyson asked for his permission and he made contact with Elizabeth as the Mayor regarding this project. We needed to get the lights right away so that we can make the deadline. We started this project on March 30th with three team members and we've been working four hours a day at the library. I'm pleased to announce that we will have this project completed this Friday. This puts us ahead of schedule. I am presently working on the post application for Com Ed. It will be submitted no later than next Wednesday the 27th and then we can move forward and get those funds reimbursed to the city of Kankakee. If we would have contracted this project out. It would have cost us \$130 per hour per electrician plus

administration fees. So, in addition to being reimbursed for the lights, doing this project has saved well over \$72,000. I would like to publicly thank our electricians: Kyle Rewerts and Eric Morris. Also, want to thank two sewer crew members who took turns helping us out. Al Argento and Deshawn Taylor, gave us a hand throughout this project. I also want to publicly thank Zach for allowing them to help me with this project. I have arranged for the local vendor to pick up the bulbs to recycle them and the cost for recycling is \$1000. I also want to thank James Lopez of DPW for giving us a hand. While we were focused on getting the library done ahead of schedule. I reached out to James at DPW so that I can get some miscellaneous items done for technical services, and he extended the hand of gentlemen from DPW and I just want to thank Zack and James for collaborating with technical services to get these projects done. Also, the next project is working on the cameras at the Administration building.

MAYOR CURTIS:

Thank you they've done a good job of getting it done in a timely manner and the savings that it's gonna save on utility cost and more importantly, just to change the light bulbs they were just always mentioning all the light bulbs work which changing quite a bit there. So, thank you for everyone for doing that. So next, we have is our utility sewer services report.

ZACH NEWTON:

We had a pretty good month to get some corrective maintenance done on our sanitary and storm lines a few miles. Because tonight seems like it's about I & I. I just want to call your attention to the picture. In routine checks, some of the sewer crew found a manhole that had a couple of holes in it leaking a lot of groundwater. I'm happy to show the video the picture just doesn't do it justice. But this has been fixed. This is a nice segue into Joe's presentation.

MAYOR CURTIS:

Zack didn't show me the video last week. The picture is showing you there basically there was from two different sides the amount of water is almost like a half inch. It almost look like your kitchen faucet running constantly with water and in the picture groundwater is running on both sides. As we talked about before, the reason that we're doing this is one we have to analyze what needs to be done and two we're gonna fix all this but it's to reduce the flow going into our wastewater treatment plant. So, karma bills, each municipality based on flow that's coming into play. Well, this is a lot of groundwater that's just going into our sewer system that flows down at just extra cost that gets passed on to us by buttoning up all this excess water from groundwater just going

into it does not need to be treated. It won't be this year but we're hoping the next fiscal year that there'll be a substantial reduction and hopefully our flow charge that we're having paid going forward. But I think you know, Zach does have a pretty cool video if anybody wants to see it. It's about five seconds and I was shocked at how much water was running into one just particularly manhole. Do we have any questions? Thank you and next we'll have our laboratory lab services report. Are you going to touch base a little on the machine tonight?

RYAN MCGINNIS:

Yes. Things in the Lab are running normally. In March we completed our MS4 sampling our first of the year. We have to do that four times a year. I do want to bring your attention to you by working on getting a bid for a piece of equipment that we're trying to replace, it's 20 years old about and it's roughly \$100,000 as far as cost goes and for the process of trying to get some specifications on what we need to get that process are out there.

MAYOR CURTIS:

Can you tell what this machine in 10 second layman's terms I guess what it does for us?

RYAN MCGINNIS:

Yes, it basically allows us to run our samples. So, some of the samples will be run will be charged out to industries. We need this machine to be able to do that to bring an end to the city. So, this will be a project that will hopefully generate more revenue than cost.

MAYOR CURTIS:

So, the analysis that was put together will show it's about a five year return basically so after five years they have a lifespan is about 10 to 15 years?

RYAN MCGINNIS:

Yeah about 15 years, but we probably end up using it less than the average user. So, I'm hoping to get another 20 or so.

MAYOR CURTIS:

So, we're open to the last at least 15 maybe 20 years but after five years, we do believe that it will be paid for the 100,000 that's being spent on it. And then that would be income net income over the next 10 to 15 years from our industrial users in measures, even though I think you mentioned your measure tool, a higher grade then we can currently do.

RYAN MCGINNIS:

It's more accurate than the current technology we have. But then another thing we mentioned about the current piece of equipment we have, it's similar to the locks situation that I was talking about previously, that there's a part on that piece of equipment that if it were to break, we would be totally down and we wouldn't be able

to run that sample. So that part is on manufacturing. So, if that were to go down, then we would be kind of stuck there. And if that was the case, we figured it'd be about six months before we would recoup our costs if we want to replace it and set so only six months of downtime. And I'm not sure what the turnaround time is in terms of ordering a new piece of equipment. You know, if you were to go out according to this report, I would take a while to get that so just thought that it might be a good idea to replace that before.

MAYOR CURTIS: So, we call this an ICP machine, correct?

RYAN MCGINNIS: Yeah, that's correct.

MAYOR CURTIS: And the thought process here it's basically a tool for our sewer system. So, the recommendation was is to bring this to the committee of whole on Monday, for consideration is the sewer line item. We also have it on the KRMA agenda for this Thursday to discuss we're not sure it can be a whole city Kankakee discussion. Maybe there's a partnership within KARMA for it. We're going to discuss that whether that falls on there. So, but the discussion is tonight, it's something that is needed. Something that I will have a return for the city Kankakee, five years out. We do believe it would be ARPA eligible. So, we'll bring that to committee of whole on Monday night for discussion.

ALD MARCZAK: Are we using this in conjunction with Bradley and Bourbonnais and or is it exclusively for us?

MAYOR CURTIS: I may have to defer to Mr. Tyson. Can you elaborate on that? So right now, the city Kankakee does the lab testing for us is when you explain how it fits in with KARMA.

DAVE TYSON: They do the testing for KARMA too. They test the waters they test everything that comes in as far as all the waste and then they bill KARMA and so the machine serves both purposes. It's not only for the city of Kankakee, but it will be for all the outside users that uses our Lab.

MAYOR CURTIS: But it is the city of Kankakee lab services test. It's part of the ESU budget obviously our sewer services are our main income producer. So as part of that whole income stream for ESU any other questions? All right. Thank you sir. Next, we're going to go into item B which is our financials. Comptroller Kubal, would you like to lead us through that?

ELIZABETH KUBAL:

Thank you, Mayor. We are at the obviously the 11-month points to the end of March. So, like in this budget, and we're getting that very clear picture of this fiscal year and most certainly, as you look through the trends, everything is still very, very strong. Expenses have been lower than expected, which is excellent. And we're very pleased with that. I have first page administration, as you can see, like 61.7% we have a couple of line items that we're going to look at for the budget as we're having those meetings as we speak, but nothing substantial whatsoever. sewer services at that 89.4%. Only a couple of line items possibly be looked at otherwise, those are very in mind the payments to KARMA we are on pace for the first page. Second page reporting over technical services and laboratory services once again well under that 92% with a very strong very, very pleased to like we have transferred all the money through the end of the mark for the bond amortization that we have to do. So that is caught up that is approximately as you see here. 187,500 per month and we will do the right number in the next fiscal year. On the last page, public works very strong. Again, everyone is everyone in the utility has done a great job this year managing the budget that we've set forth for them. The one concerning item in the ESU budget as we have talked about over and over again. It's certainly not expenditures, it is revenue, and we are watching those revenue numbers very closely. We are not lagging by much in this final month. We are lagging a bit. So, we have to be very particular with everything now that we have passed the rates. We will budget that according to where we've been this year. And we will also make sure that we get everything going, as far as, the revenue and all of that to make sure we have that aligned. So, that is the key part of this next budget. I can have a conversation. I know all the issue have been working on their individual budgets have been working with Dan or their individual budgets. Dan and Dave have met one time, many conversations we're meeting again here pretty shortly to get that all like outlined for you and we will certainly be able to get that passed and hopefully that we May timeframe. Any questions?

ALD OSENGA:

Under Space Center 151. Are we still paying rent for that property?

NEW BUSINESS

MAYOR CURTIS:

As of March 31, that was our last payment. So, this is the first month we haven't had to pay. Any questions? Thank you. Okay, we have no old business. We have no unfinished business. And we're gonna move into item eight, which is new business. The first line item there is item A. An appointment of Clara Hall, Technical

Service Operations Manager. We're gonna have to pull back we actually need to in speaking with different people, we have to change the handbook first before we can do anything in the department there so the handbook has been changed with the ESU Handbook by this committee since I believe 2018. Late 2017-18. Yeah. So, what we're going to do is we're going to talk to we need to pull back the handbook, look at all that make all the changes that need to be and bring them back to this committee. To make change recommended changes this committee before we can move forward on any other items that are so. So that item will keep under unfinished business going forward. But we'll bring back recommendations for the handbook to make sure that we're doing everything accurately and per the code that we need to because we can't change titles without changing the handbook first. Item B is the acceptance of the bid. We did have a bid opening for five station pumps. Dan, can you handle that? So that the recommendation is we did have a bid opening. I will let Dan explain the bid opening when we had there. Again, this is something that we would like to... if you remember we did order pumps about 60 days ago. It's an emergency to get those in it takes some time to get these in. These are two pumps that are almost out and then we have five other lift stations that are kind of on their last leg. The recommendation is to take this bid to ARPA on Monday and also have a discussion throughout the funding but Dan if you can talk to us about the bid opening.

DAN JAY:

We only came back with one bid (*inaudible*).

MAYOR CURTIS:

So, we accept this and take this to ARPA for consideration if it passes over the committee of all the city council that would approve of the city council and that would be approximately 15 lift stations that means the two we ordered and these five and we have about half of those stations up to par. So, is there any questions? I guess because we did have a bid. So is there a motion to accept the bid of \$149,483.39 and present that to the committee of whole for consideration.

ALD JONES:

So move.

ALD OSENGA:

Second.

MAYOR CURTIS:

Motioned by Alderman Jones and seconded by Alderman Osenga. Are there any questions or comments? Roll call.

CLARA HALL:

Ald Lewis - Aye
Ald Prude – Aye
Ald O’Brien - Absent
Ald Osenga – Aye
AYES: 7

Ald Swanson – Aye
Ald Johnson - Aye
Ald Jones - Aye
Clerk Gall – Aye
ABSENT: 1

MAYOR CURTIS:

We will send to the committee of whole for consideration. Next, we have some presentations. We're going to have MS4 presentation, I&I that I studied that you've approved, and then the Road Study presentation that will be happening. So I'm going to ask different representatives from Robertson Engineering to come up here. I will make you open mics and they're going to give us some brief presentations on some of the work that has been done and what you've allocated to funding.

ITEM A: MS4 PRESENTATION

DANA WEST:

Right, thanks very much. Okay, my name is Dana West. I'm about us. And engineering. We're going to talk a little bit about stormwater tonight. Formerly program we're talking about is NPPs. Phase two. I've been working with Dan and Zack and your whole team on this project for a little while now and you're kind of coming in and out of different pieces. One of the required components of the program is that there is a public meeting. We find that through regularly scheduled meetings is actually an easy way to accomplish that have been doing them because of COVID. Like we're so glad to be here and be a part of your program. NPDS stands for National Pollutant Discharge Elimination System and PDS can have up refer to both wastewater and stormwater. Today we're just going to be talking about stormwater. So what does it basically mean? It basically means keeping everything that's not stormwater out of your stormwater system. We are looking for pollutants we're trying to keep pollutants out of your major water within the cities such as the river and all the other major water sources but also all of the minor stormwater components of your system as well. Such as storm sewers, ditches, stormwater basins everywhere that storm water goes where it falls after it rains basically, is within your storm sewer system and this program covers. Why do we have to do this? Well back in the 1970s, the Clean Water Act was enacted and periodically through time USEPA actually increases requirements. The two is actually administered by the state and so the state actually filters requirements and sets are recording and other specific requirements that we all have to do as a municipality since 2003. We've had some formalized documentation, every community that

is supposed to be working on this program, same conditions that they have to perform. So, there are six minimum patrol major categories. So, I worked out a little bit there on the top but a lot of a lot of girl that we're just gonna go over this very, very briefly. may have a little bit. There's a lot of different things that we need to do here under the program. We're just going to do a brief overview tonight. The first thing that we have to do the first category is public education and outreach purposes for a city to get information out to property owners in the general public so that they can learn more about what the cause of problems there. There's also some specific documentation like annual reports and things that we have posted. On our website as well. Other examples of public education and outreach from time to time, things about recycling are also passed up to your property owners and so keeping your waste in the in the garbage cans in the landfills, just keeping it out of your storm system. So again, just another example of what kind of outreach counts for this program. Participation as I mentioned tonight is public meeting is one of the required elements program. Other ways that the public participates on the program is to collect leaves and branches and things like that that are picked up by different entities within the city. There is also cleanups, I understand that there used to be a river, all of those elements we can take credit for and then the SDGs phase two program. Illicit discharge detection and elimination is basically a real fancy term for keeping non-stormwater out of the stormwater system. One of the examples we're talking about here tonight, up on the screen, there are pictures about faults. These are not insane. These are all examples of what we don't want to see. And the top left picture you'll see something that looks a little fuzzy, but there's some sort of soap discharge and that iPhone, basically this is where the storm stores come out to a creek or a river. And the right is a very extreme example of something bright orange and this is something you don't see. And then upon right picture you can see that the shorelines are broken and so that sediment is going into the ponds all things that we check in periodically for Team checks in on to make sure that these issues are identified and remedied as soon as possible. Construction Site runoff control before any project goes to construction. There are a lot of different requirements that are handled on paper you're permitting and then ultimately once they're constructed, you probably have all seen the black fence that surrounds sites and the most obvious example that contains sediment and debris from flowing off the construction site. Those sites also need to be constructed inspected periodically until construction is completed. Post construction is just that it's kind of a real somewhat close follow up to the previous category. Prior to wrapping up contracts with contractors or handing

occupancy permits over for brand new developments. There's a whole lot of inspections that have to happen. There are also other best management practices like permeable pavers bioswales and things like that that will help treat the water long term before it actually goes into storm sewer. Pollution Prevention, good housekeeping is the last category but not least, this is the category that keeps your team very busy all year round. You can see some examples there: street sweeping, cleaning up catch basins and doing inspections to make sure that any obvious problems can be eliminated. It also involves a path to debris managing all that from your own city sites and also repairing the storm sewers as best you can. So what else goes into this program? I like I said there's a whole lot of documentation is a big thing that I get pushes for so most guys and especially here in the city, you have a great team that's doing a lot of the things that were supposed to do. My help and my role is actually to help provide some ease for documentation and forms. check in and say well, here's what other municipalities are doing. So, I'm trying to stay on par with the with the expectation IEPA. We have annual reports that are due June 1 every year. There are also periodic inspections which are kind of come and go we actually just survived one not too long ago so that should be good for a while and we are actually expecting some updates on the permit from IEPA. At some point now, they're actually a little behind schedule. So, there could be some updates to the different activities that are included. With that a with a good overview on it to see if anybody has any questions about the stock market clients program. Thank you.

ITEM B: I&I PRESENTATION

JOE SULLIVAN:

Good evening. Go solving the problems and engineering that we'll be talking a little bit of a progress update on the I&I program that was approved end of February beginning of March Kankakee sewer investigation and rehabilitation program in lower Riverview. So, these are the program components we had our project kickoff meeting at the end of March. The manual inspections are roughly 50% complete today. CCTV clean and TV bid package is about 95% we plan to submit that to staff this week for review and then put that off for advertisement. The CCTV observation review and analysis manual rehab and sewer lighting programs. Parts of the program are all still at 0% that hasn't we haven't gotten to that stage and prep project management. We're roughly at about 15% complete. So just to kind of touch on the manhole inspection components so each manhole is you see on the left we're documenting the condition of the cover the lid, the frame, the adjustment or chimney section of the manhole, the wall, the barrel,

the bench channel and trough and we're looking for structural integrity, as well as any I&I coming into the system. And we are using a mobile form out there. So, everything we're doing we're collecting digitally on tablets, and that's going through the cloud and to our servers, our database that we are hosting and showing that to staff live as we go. So, I did record a short video of the web dashboard as we call it and you can see the manual inspection data as it's coming in live. So that's kind of a screenshot of it. Here's a little video just kind of walking through some of the components so it's all tied to GIS you can see right now I'm panning around the lower river view area, clicking on the map zooming in a click on the manual, it'll pull up the inspection record. As you scroll down through the records, it's kind of hard to see but all the data that we collect was there there's four photos minimum per structure. So we take a cover photo and area photo, a manhole frame photo and then a top side looking down photo into another part we actually did come across a manhole that we found was surcharge during the time of inspection so that means there's a blockage downstream of the location you can see the standing water in the manhole so we had that did Zach I guess you and he notified his crews came up we're able to preventatively jet the sewer before any backups occurs that was a great find out before somebody was getting a sewer backup. You can turn on the ortho photos from the city key and see all this within aerial background. Some of the mammals that were expecting and lower river view are actually in the river. So, I don't know if any of you have driven bank see this structure before but that's the sanitary sewer manhole in the Kankakee River so it's pretty important to look at an excessive infiltration and flows coming into it. We did see this one had been read repaired two years ago. We did see a slight crack where some drops are coming in. So that'll be at a touch up list to fix that up. But that's kind of a quick overview of the dashboard that was available live during the during the project. So, like I said, we're at roughly 53% of the manholes inspected today. Of the system manuals. The study area that we're working in is basically 13% of the total of the total system. So, you have 87% still remaining after this Riverview portion of that 13% that we've inspected or of the 50% of the 13% that we've inspected. We found about 86% of those mammals have at least one defect that will need to be repaired so only 14% We can look at it and walk away and say there's nothing at all wrong with this manhole. Those interesting with the manholes in the in the floodplain, on the right on the river bank, they are subject to flooding so it's important to look at these. This one we looked at the interior it was fine there was no defects at all on the interior. But the exteriors you can kind of see here is the outside of more voting is falling apart this loose break in there. There's a cover that

allows flow into the top. You know this is right on the river banks of the river swell up and down. We could basically watch this man always break this middle part. So that's something that we've noted and it will be repaired. Some additional manual defects and typical ones include the frame adjustment and the chimney area. This is all subjected to freeze thaw during the winter months. This is also very subject to inflow during the wet spring months. So those are usually the first parts of the man home to deteriorate. Roots coming into the manholes, this shows a route coming in through the manhole wall and roots coming in all love or hate skills. So that's another spot where root growth can penetrate through and fall and kind of tear it apart over time and also allow infiltration into the manhole causing for deterioration. So, this is really the start of a program but it's a really good program start that you guys are doing. On the storm of storm sewers that are have water intrusion are literally injectables like a polyurea. You know where you know you can completely repair you know the system and you know...I got that binder. I absolutely can. For the sanitary sewer there is polyurea liners for the interiors of the manholes. There's messages coating that's often recommended that basically excludes any excavation for that. There's also chemical grouting that you can do so if there's active infiltration into the manhole you can come full grout through the manhole wall to the outside and create a buffer around that manhole to prevent I think is infrastructure as well. And we'll be looking at all those types of repairs and making those recommendations and reviewing that the staff for that attack this goes out. We have one for sure as well.

KEITH MULHOLLAND: I'll be discussing on the pavement analysis program. So, this program will evaluate the roads in industry standards. Its software is called the paver pavement maintenance management systems Say that five times fast. The Department of Defense originally created the software back in the 70s so that the government could evaluate and maintain it systems. Since then it's been used by different military organizations, state and local agencies. So, you can key as 140 miles of roadways in the minds of alleys evaluated. White conducted pain analysis so you can get the objective analysis of all the roads and alleys in town. We will evaluate this on a ward by ward basis and present that result and we'll also look at the city as a whole so you can have it both ways. Whichever way, the city will decide to move forward with future maintenance programs. This can be used for long range budget programs you can create multi-year plans for the budget and come up with diagrams, some communities that are five-year plans on your website so that when people call, why have the ministry been taken care of this year? You're in two years or three years down the

road? Is that the tool that you guys could use? That also allows you to potentially save money by doing rehab rehabilitation projects versus reconstruction projects. So, for every dollar you spend on a rehabilitation, it's going to be about \$5 or more than reconstruction. So potentially the roads before they become a problem will actually save the city money in the long term. The program comes out with a pavement condition index PCI and every street and alley block could be rated between zero and 100. Zero was a failed payment that requires reconstruction. 100 is the new pavement or recently reconstructed pavement. There's 20 Distressed news out talking about last minute and between 50 and 65 what they call your critical range and they'll talk about that and then this is an example of let's just pick a distress type would be one of the...use the distressed quantity is easy to think of how many cracks there are in a given city block or alley block. And then the trust severity is how bad those cracks are. They can be hairline cracks, or they can be wider cracks for the asphalt or concrete it's actually starting to shift and those 20 categories go into scoring to the right which is too small to read. The green is between 85 and 100 which is excellent pavement environment greater zero to 10 which requires reconstruction. The black line on this just shows a typical pavement lifecycle. On the left is at 100 which is new pavement and it starts to deteriorate over the first couple of years. That's where you find your weak spots, road cracks or some hospitals might develop in the first few years. But then that line levels out and becomes more horizontal and that's it within your payment lifecycle. That orange line is at that 65 PCI score. And that's considered your critical period. After that the roads start to deteriorate more and more rapidly. The different colored lines at the top are just different rehabilitation methods that can be done. The further left on this line you catch it the cheaper the repairs are crack sealing base and surface treatments. When you get to the point where your payment requires major reconstruction that for your costs are oftentimes four or five times more with like a crack seal program. So, we completed with an analysis like this from the village of Bradley a few years ago, and this was just showing an example of a five-year program estimating the blue bars in the front are if the bills were to do nothing their payment. average score for the entire community was about 53 and it's gonna do great a couple of points a year if they spend no money on it. The red bars in the back represent if they were to spend 2 million a year to try and keep it closer that 53 It does look a little bit over five years. This was another example for Bradley if they wanted to stay at a level which is within that above that orange, critical line they're spending about 3 million a year. The dark colors in the back is a spectacular year that you get all the

streets to it over an 80 by 85 score. That's excellent pavement. We're not recommending or suggesting that the community spent that much money to get to the most of that condition, but it was just an example to show what it would take for them and they wanted to have virtually new streets throughout their community. So, the timeline for the project the council approved this in March and we partnered with pipe research associates ARA, they have a vehicle that will come out and dry the streets between this month and next month. All the streets and all the alleys they take cameras, they take pictures they use lasers to check cracks and dents in the day map. Then they run that through the favorite software program and give that to us. We do American analysis on that and then later this year, we'll come back and make another presentation to the Council of our findings.

ADJOURNMENT

MAYOR CURTIS: There's no there is no need for an executive session tonight. Is there any questions or comments before we adjourn? Motion to adjourn.

ALD PRUDE: So move.

ALD JONES: Second.

MAYOR CURTIS: Motioned by Alderman Prude and Seconded by Alderman Jones. All in favor?

ESU BOARD: Aye.

MAYOR CURTIS: Opposed? Thank you, everyone.